

**United Nations**

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**ECONOMIC  
AND  
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**CONSEIL  
ECONOMIQUE  
ET SOCIAL**

E/CN.3/C.1/3  
16 July 1947

ORIGINAL: ENGLISH

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STATISTICAL COMMISSION

COMMITTEE ON STANDARD INDUSTRIAL CLASSIFICATION

THE PROPOSED INTERNATIONAL STANDARD INDUSTRIAL CLASSIFICATION

(Submitted by the Representatives of Canada and  
of the United States of America)

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THE PROPOSED INTERNATIONAL STANDARD  
INDUSTRIAL CLASSIFICATION

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## PART I

Introduction

In view of the urgent need for an international standard classification of industries, Mr. Herbert Marshall of Canada and Mr. Stuart A. Rice of the United States of America thought that the preparation of a tentative classification as a basis for discussion at the meeting of the Committee on Industrial Classification, appointed at the first session of the Statistical Commission, would expedite progress toward that end. Accordingly, Mr. Herbert Marshall and Mr. Stuart Rice made available the services of technical experts in their respective countries to undertake the compilation of a working draft.

The accompanying proposed classification was drawn up by V.S. Kolesnikoff of the Executive Office of the President of the United States, and Neil L. McKeller of the Dominion Bureau of Statistics, Canada.

It is recognized that the requirements for industrial data for purposes of international comparison do not necessarily coincide with the domestic requirements of any one nation for such information. The attached classification is not, therefore, identical with that of any country. There is no reason that it should exactly parallel any domestic classification.

The purpose of this proposed international standard industrial classification is not to supersede existing national classifications, but to provide an up-to-date framework for the comparison of statistics of national governments. The classification may be recommended for use as it stands by countries wishing to adopt for the first time a classification of industries. In the cases of countries that already have classification systems, the desirable degree of comparability may be achieved simply by a regrouping of the figures shown under the national classification but

in mind, code numbers have been assigned to the major groups and sub-groups in such a manner that they permit the expansion or contraction of the proposed classification as desired, within the framework of the established divisions.

The proposed classification provides broad "Divisions", "Major Groups", and "Sub-groups" suitable for the classification of branches of economic activity. When, in obtaining original data, some countries use the establishment, some the firm, and others separate departments, comparable data cannot be assembled even though a standard classification is used. It is therefore essential that a definition of "establishment" be developed and generally accepted. The following definition is suggested for the consideration of the committee:

Definition of Establishment

An establishment is generally defined as a single physical location where business is conducted or where services or industrial operations are performed; for example, a factory, mill, store, mine, or farm. Where a single physical location comprises two or more units which maintain separate payroll and inventory records and which are engaged in distinct or separate activities for which different industry classifications are provided in the Standard Industrial Classification, each such unit shall be treated as a separate establishment.

An establishment is not necessarily identical with the business concern or firm which may consist of one or more establishments. It is also to be distinguished from organizational sub-units, departments, or divisions within an establishment.

In addition, it is recommended that the following general principles be adhered to in the participating countries in order that maximum

### General Principles

1. The minimum list of industries is a classification of industries and not of occupations or commodities.
2. The classification is by industries irrespective of the kind of ownership. For example, industries operated by governmental authorities are classified by the character of the industry and not by the kind of ownership.
3. Each individual establishment is taken as the unit for classification and the classification of an individual establishment is determined by the principal product produced or handled or service rendered by the establishment. The principal product or service is determined by the proportion of gross revenue attributable to the product or service. In case of the absence of information on value of product or service, the use of employment data is permissible; however, every effort should be made to obtain data on value of product or service.
4. Some establishments have separate operating units engaged in making articles (such as containers or packing) to be used primarily in the distribution of their own products. It is proposed that such units be classified under the same headings as the establishments for which they are working.

These general principles are very similar to those put forward by the Committee of Statistical Experts of the League of Nations (see *Studies and Reports on Statistical Methods*, No. 1, League of Nations, Geneva, 1938) and further developed in a number of countries in their subsequent work on problems of industrial classification.

The working draft of the proposed classification of industries essentially presents a revision of the industrial classification of the

suggested and made on the basis of actual practices and on the basis of additional information on industrial structure of countries. In order to facilitate the examination of the proposed classification in its relation to the classification of the League of Nations, a special supplementary table is given in Part VI of this paper, comparing the League of Nations classification and the proposed classification prepared by the decision of the United Nations Statistical Commission.

Special attention of the committee is called to the fact that no matter how adequately the classification is developed, its universal use for international comparability could not be attained without definite information on individual products and services to be assigned to definite industries included in the minimum list. Therefore, it is recommended that an alphabetic index of products and services be developed and used as a guide for determining the exact scope of each industrial group in the classification.

PART II

Summary of Classification

List of Divisions and Major Groups

Division 0. - AGRICULTURE, FORESTRY, HUNTING, AND FISHING

- Major Group 01 - Agriculture  
02 - Forestry and Logging  
03 - Hunting, Trapping, and Game Propagation  
04 - Fishing

Division 1. - MINING AND QUARRYING

- Major Group 11 - Coal Mining  
12 - Metal Mining  
13 - Crude Petroleum and Natural Gas  
14 - Non-metallic Mining and Quarrying Except Coal  
Mining, Stone Quarrying, Clay and Sand Pits  
15 - Stone Quarrying, Clay and Sand Pits

Divisions 2-3. - MANUFACTURING

- Major Group 20 - Food Manufacturing Industries (Not Including  
Beverage Industries)  
21 - Beverage Industries  
22 - Tobacco Manufactures  
23 - Manufacture of Textiles  
24 - Manufacture of Wearing Apparel and Other  
Made-Up Textile Goods  
25 - Manufactures of Wood and Cork Except  
Manufacture of Furniture  
26 - Manufacture of Furniture and Fixtures  
27 - Manufacture of Paper and Paper Products  
28 - Printing, Publishing, and Allied Industries  
29 - Manufacture of Leather and Leather Products  
Except Footwear  
30 - Manufacture of Rubber Products  
31 - Manufacture of Chemicals and Chemical Products  
32 - Manufacture of Products of Petroleum and Coal  
33 - Manufacture of Non-metallic Mineral Products,  
Except Products of Petroleum and Coal  
34 - Primary Metal Industries  
35 - Secondary Metal Industries  
36 - Manufacture of Machinery Other Than Electric  
37 - Manufacture of Electrical Machinery, Apparatus,  
Appliances, and Supplies  
38 - Manufacture of Transportation Equipment  
39 - Miscellaneous Manufacturing Industries

Division 4. - CONSTRUCTION

- Major Group 40 - Construction

Division 5. - WHOLESALE AND RETAIL TRADE

Division 6. - FINANCE, INSURANCE, AND REAL ESTATE

- Major Group 61 - Banks and Other Financial Institutions
- 62 - Insurance Companies (Insurance Carriers)
- 63 - Insurance Agents, and Real Estate

Division 7. - TRANSPORTATION, COMMUNICATION, AND OTHER PUBLIC UTILITIES

- Major Group 71 - Transportation
- 72 - Communication (Post, Telephone, Telegraph)
- 73 - Storage and Warehousing
- 74 - Electric Light and Power Production and Distribution
- 75 - Gas Manufacture and Distribution
- 76 - Water and Sanitary Services
- 77 - Steam Heat and Power, and Other Public Utilities

Division 8. - SERVICES

- Major Group 81 - Government Service
- 82 - Community and Business Service
- 83 - Recreation Service
- 84 - Personal Service
- 85 - Repair Service

Division 9. - ACTIVITIES NOT ADEQUATELY DESCRIBED

- Major Group 90 - Activities Not Adequately Described



# PART III

## Detailed Classification

### List of Major Groups and Groups of Industries

#### Division 0. - AGRICULTURE, FORESTRY, HUNTING AND FISHING

<u>or Group</u>	<u>Group</u>		<u>L. of N.</u> <u>Chapter</u>	<u>L. of N.</u> <u>Item</u>
01	010	AGRICULTURE	I	1
02		FORESTRY AND LOGGING		
	021	Forestry	P. of II	Part of 2
	022	Logging	P. of II	Part of 2
03	030	HUNTING, TRAPPING, AND GAME PROPAGATION	P. of II	Part of 2
04	040	FISHING	III	3

#### Division 1. - MINING AND QUARRYING

11	110	COAL MINING	P. of IV	4
12		METAL MINING		
	121	Iron Ore Mining	P. of IV	5
	122	Metal Mining Except Iron Ore Mining	P. of IV	6
13	130	CRUDE PETROLEUM AND NATURAL GAS	P. of IV	7
14	140	NON-METALLIC MINING AND QUARRYING EXCEPT COAL MINING, STONE QUARRYING, CLAY AND SAND PITS	P. of IV	8
15	150	STONE QUARRYING, CLAY AND SAND PITS	V	9

/Division 2-3.

Division 2-3. - MANUFACTURING

<u>Major Group</u>	<u>Group</u>		<u>L. of N.</u> <u>Chapter</u>	<u>L. of N.</u> <u>Item</u>
20		FOOD MANUFACTURING INDUSTRIES (Not Including Beverage Industries)	VI	
	201	Slaughtering, Preparation, and Preserving of Meat		10
	202	Manufacture of Dairy Products		13
	203	Canning and Preserving of Fruits and Vegetables		11
	204	Canning and Preserving of Fish and Other Sea Foods		12
	205	Manufacture of Grain-Mill Products		14
	206	Bakery-Products Manufacturing (Bread, Biscuit, and Pastry Making)		15
	207	Sugar Factories and Refineries		16
	208	Manufacture of Candy and Other Sugar Confectionery, Chocolate and Cocoa Products		17
	209	Manufacture of Miscellaneous Food Products		18
21		BEVERAGE INDUSTRIES	VII	
	211	Distilling, Rectifying, and Blending of Spirits		19
	212	Wine Industries		P.20
	213	Breweries and Manufacturing of Malt		P.20
	214	Soft Drinks and Carbonated Water Industries		P.20
22	220	TOBACCO MANUFACTURES	VIII	21
23		MANUFACTURE OF TEXTILES	XVI	
	231	Primary Textile Mills Other Than Knitting Mills		Part of 37
	232	Knitting Mills		38
	233	Cordage, Rope, and Twine Factories		36
	239	Textile Mills, n.e.c.		Part of 37

<u>r Group</u>	<u>Group</u>	<u>L. of N.</u> <u>Chapter</u>	<u>L. of N.</u> <u>Item</u>
24	MANUFACTURE OF WEARING APPAREL AND OTHER MADE-UP TEXTILE GOODS	XVII	
	241 Manufacture of Wearing Apparel Except Footwear		39
	242 Manufacture of Footwear Except Rubber Footwear		40
	243 Manufacture of Made-Up Textile Goods Except Clothing		41
25	250 MANUFACTURES OF WOOD AND CORK EXCEPT MANUFACTURE OF FURNITURE	Part of XII	25, 27, & Part of 26
26	260 MANUFACTURE OF FURNITURE AND FIXTURES	P. of XII	Part of 26
27	MANUFACTURE OF PAPER AND PAPER PRODUCTS	XIII	
	271 Pulp, Paper, and Paperboard Mills		28
	272 Manufacture of Articles of Pulp, Paper, and Paperboard		29
28	280 PRINTING, PUBLISHING, AND ALLIED INDUSTRIES	P. of XIV	30
29	MANUFACTURE OF LEATHER AND LEATHER PRODUCTS EXCEPT FOOTWEAR	P. of XV	
	291 Tanneries and Leather Finishing Plants		32
	292 Manufacture of Leather Products Except Footwear and Wearing Apparel		34
30	300 MANUFACTURE OF RUBBER PRODUCTS	XI	24
31	310 MANUFACTURE OF CHEMICALS AND CHEMICAL PRODUCTS	IX, X	22, 23
32	MANUFACTURE OF PRODUCTS OF PETROLEUM AND COAL	XIX	
	321 Petroleum Refineries		44
	322 Coke Ovens		Part of 43
	329 Manufacture of Miscellaneous Products of Petroleum and Coal (Petroleum and Petroleum Products from Coal, Fuel Briquettes)		Part of 43
		/33	MANUFACTURE

<u>Major Group</u>	<u>Group</u>		<u>L. of N.</u> <u>Chapter</u>	<u>L. of N.</u> <u>Item</u>
22 33		MANUFACTURE OF NON-METALLIC MINERAL PRODUCTS, EXCEPT PRODUCTS OF PETROLEUM AND COAL	XX	
	331	Manufacture of Structural Clay Products (Brick, Tile, Sewer Pipe, Clay Refractories)		45
	332	Manufacture of Glass and Glass Products		47
	333	Manufacture of Pottery, China, and Earthenware		46
	339	Manufacture of Non-metallic Mineral Products, n.e.c. (Cement; Lime; Gypsum, Concrete and Asbestos Products; Mineral Wool)		48
34		PRIMARY METAL INDUSTRIES	XXI	
	341	Iron-and-Steel Primary Industries (Blast Furnaces, Steel Works, Rolling Mills, Iron and Steel Foundries)		49
	342	Non-ferrous-Metals Primary Industries (Smelting, Refining, Rolling, Drawing, Alloying of Non-ferrous Metals, and Non-ferrous Foundries)		50
35	350	SECONDARY METAL INDUSTRIES	XXII	51
36	360	MANUFACTURE OF MACHINERY OTHER THAN ELECTRIC	Part of XXIII	52
37	370	MANUFACTURE OF ELECTRICAL MACHINERY, APPARATUS, APPLIANCES, AND SUPPLIES	Part of XXIII	53
38		MANUFACTURE OF TRANSPORTATION EQUIPMENT	Part of XXIII	
	381	Ship Building and Repairing		54
	382	Manufacture of Railroad Equipment		55
	383	Manufacture of Motor Vehicles		P.56
	384	Manufacture of Bicycles		P.56
	385	Manufacture of Aircraft		58
	389	Manufacture of Transportation Equipment, n.e.c.		59

24

<u>Major Group</u>	<u>Group</u>		<u>L. of N. Chapter</u>	<u>L. of N. Item</u>
39		MISCELLANEOUS MANUFACTURING INDUSTRIES	XXIV, XXV, XXVI	
	391	Manufacture of Professional, Scientific, and Controlling Instruments		P.60
	392	Manufacture of Photographic and Optical Goods		P.60
	393	Manufacture of Watches and Clocks		61
	394	Manufacture of Jewelry		62
	395	Manufacture of Musical Instruments		63
	399	Manufacturing Industries, n.e.c.		64, 65
		<u>Division 4. CONSTRUCTION</u>		
40	400	CONSTRUCTION	XXVII	66
		<u>Division 5. WHOLESALE AND RETAIL TRADE</u>		
51	510	WHOLESALE TRADE	P.XXXIII	P.72
	520	RETAIL TRADE	P.XXXIII	P.72
		<u>Division 6. FINANCE, INSURANCE, AND REAL ESTATE</u>		
61	610	BANKS AND OTHER FINANCIAL INSTITUTIONS	P.XXXIV	73
62	620	INSURANCE COMPANIES (Insurance Carriers)	P.XXXIV	P.74
63	630	INSURANCE AGENTS, AND REAL ESTATE	P.XXXIV	P.74 & P.75
		<u>Division 7. TRANSPORTATION, COMMUNICATION, AND OTHER PUBLIC UTILITIES</u>		
71		TRANSPORTATION		
	711	Railroad Transportation	P.XXVIII	P.67
	712	Tramways, Omnibus, and Taxicab Operators	P.XXVIII & P.XXIX	P.67 & P.68
	713	Road Transportation of Passengers	P.XXIX	P.68
	714	Road Transportation of Freight	P.XXIX	P.68

/71 TRANSPORTATION

<u>Major Group</u>	<u>Group</u>		<u>L. of N.</u> <u>Chapter</u>	<u>L. of N</u> <u>Item</u>
26 71		TRANSPORTATION (Cont'd)		
	715	Water Transportation	XXX	69
	716	Air Transportation	XXXI	70
	717	Services Incidental to Transportation		
	719	Transportation, n.e.c.		P.75
72	720	COMMUNICATION (Post, Telephone, Telegraph)	XXXII	71
73	730	STORAGE AND WAREHOUSING	P.XXXIII	P.72
74	740	ELECTRIC LIGHT AND POWER PRODUCTION AND DISTRIBUTION	P. XVIII	P.42
75	750	GAS MANUFACTURE AND DISTRIBUTION	P. XVIII	P.42
76	760	WATER AND SANITARY SERVICES	P. XVIII	P.42
77	770	STEAM HEAT AND POWER, AND OTHER PUBLIC UTILITIES	P. XVIII	P.42
		<u>Division 8. SERVICES</u>	Sections G and H	
81	810	GOVERNMENT SERVICE	P. XLIV	92
82		COMMUNITY AND BUSINESS SERVICE		
	821	Educational Service		87
	822	Medical and Other Health Service		84,85, 86
	823	Religious Organizations		88
	824	Welfare Institutions		P.93
	825	Legal Service		P.93
	826	Accountancy Service		P.75
	827	Business Service Except Accountancy		P.75
	828	Trade Associations and Labour Organizations		P.93
	829	Community Service Not Elsewhere Classified		P.93

/83 RECREATION

28

<u>Major Group</u>	<u>Group</u>		<u>L. of N.</u> <u>Chapter</u>	<u>L. of N.</u> <u>Item</u>
83		RECREATION SERVICE	XXXIX	
	831	Motion Picture Production, Distribution, and Projection		P.81 & 82
	832	Recreation Service Other Than Motion Picture		P.81 & 83
84		PERSONAL SERVICE		
	841	Domestic Service	XXXVII	80
	842	Restaurants, Cafes, Taverns, and Other Drinking and Eating Places	P.XXXVI	P.76
	843	Hotels, Rooming Houses, Camps, and Other Lodging Places	P.XXXVI	P.76
	844	Laundries and Laundry Service: Cleaning and Dyeing	P.XXXVII	P.78
	845	Barber and Beauty Shops	P.XXXVII	P.79
	846	Portrait and Commercial Photographic Studios	P.XIV	31
	849	Personal Service Not Elsewhere Classified	P.XXXVII	P.78 & P.79
85		REPAIR SERVICE		
	851	Repair of Motor Vehicles	XXIII	P.57
	852	Repair of Bicycles	XXIII	P.57
	853	Repair of Watches and Clocks		-
	854	Repair of Footwear	XVII	P.40
	859	Repair Service Not Elsewhere Classified		P.59
		<u>Division 9. ACTIVITIES NOT ADEQUATELY DESCRIBED</u>		
90	900	ACTIVITIES NOT ADEQUATELY DESCRIBED	XLV	94

/PART IV

PART IV

Description of Industries

Division O. - AGRICULTURE, FORESTRY, HUNTING, AND FISHING

Major  
Group      Group

01      010      AGRICULTURE

To include all farms regardless of kind of ownership and type of operation. For the purpose of industrial classification a farm is defined as the land on which agricultural operations are performed, such as field crop, fruit, and vegetable growing, rubber-tree planting, livestock, dairy, and other animal-products producing, fur-bearing animals and silkworm-breeding. Farms to be classified according to the principal product. Therefore, such categories as commercial farms, subsistence farms, part-time farms, farm homes, institutional farms, and experimental farms are not included as such in the Minimum List of Industries. To include also agricultural services such as cotton ginning and compressing; corn shelling; hay baling; threshing; animal husbandry; and horticulture service.

02      FORESTRY AND LOGGING

To include timber tracts; reforestation; and gathering of all kinds of crude materials, such as gums from spruce, chestnut, cherry, and rubber trees; barks; herbs, wild fruits, moss, and balsam needles. To include also logging contractors, logging camps for felling and cutting trees, and



- 021            Forestry
- 022            Logging
- 03      030      HUNTING, TRAPPING, AND GAME PROPAGATIONS
- Hunting and trapping wild animals for commercial purposes; game propagation for commercial purposes. Not to include establishments operating a guide service for sportsmen.
- 04      040      FISHING
- Fishing in inland and ocean waters; operation of oyster beds; whaling. To include also fishery services such as fishery inspection and protection service, and the operation of fish hatcheries.

Division 1. - MINING AND QUARRYING

Extraction of minerals which occur in nature as either solids, liquids, or gases, and which may be organic or inorganic. Underground and surface mines, quarries, and oil wells with all supplemental operations for dressing and beneficiating ores and other crude minerals are to be included in this Division. Contractors' services preparatory to actual operations of mines, quarries, and oil wells also to be included.

Major  
Group    Group

11      110      COAL MINING

Mines primarily engaged in the extraction of anthracite and of bituminous and other soft coals. This Major Group also shall include establishments which break, wash, or grade coal. To include also stripping contract service. Production of coke and coke by-products to be classified in manufacturing

12 METAL MINING

Mines engaged in the extraction of metalliferous ores and in the dressing and beneficiating of ores.

121 Iron Ore Mining

122 Metal Mining Except Iron Ore Mining

13 130 CRUDE PETROLEUM AND NATURAL GAS

Oil well drilling and oil well operations; natural gas well drilling and operations; and oil shale or bituminous sand operations. To include also contract services for rig building; cleaning, acidizing, and shooting wells; and similar operations preparatory to operating wells. The independent operation of pipe lines to transport the petroleum, natural gasoline, and natural gas to be classified in Division 7, Transportation, Communication and Other Public Utilities.

14 140 NON-METALLIC MINING AND QUARRYING EXCEPT COAL MINING, STONE QUARRYING, CLAY AND SAND PITS

Establishments primarily engaged in mining and quarrying such materials as asbestos, gypsum, salt and sulphur, and all other non-metallic minerals except stone, clay, sand and gravel.

15 150 STONE QUARRYING, CLAY AND SAND PITS

Establishments primarily engaged in the extraction from the earth of stone, clay, sand and gravel.

Divisions 2-3. - MANUFACTURING

To include those establishments engaged in the mechanical or chemical transformation of inorganic or organic substances into new

equipment. Establishments engaged in assembling component parts of manufactured products are also considered manufacturing if the new product is neither a structure nor other fixed improvement.

The materials used by manufacturing establishments may be purchased directly from producers, obtained through customary trade channels, or secured without recourse to the market by transferring the product from one establishment to another which is under the same ownership. Manufacturing production is usually carried on for the wholesale market, for interplant transfer, or to order for industrial users, rather than for direct sale to the domestic consumer.

Printing, publishing, and industries servicing the printing trades are classified as manufacturing industries.

The unit to be classified is the single establishment, which, in some cases, may be a part of a larger organization composed of several establishments. In most cases, the industry assignment is determined on the basis of the principal product made in the establishment, but in a number of instances other criteria are used. For example, in the case of textile mills and textile-finishing plants a range of manufacturing operations serves as a base for classification.

Auxiliary units, such as power plants, laboratories, repair shops, garage, or warehouses, operated by a manufacturing establishment for its own use, are classified according to the primary activity of the manufacturing establishment. Central and district administrative offices are included with the manufacturing establishment when they are not primarily wholesale outlets.

Major  
Group Group

20

FOOD MANUFACTURING INDUSTRIES (NOT INCLUDING  
BEVERAGE INDUSTRIES)

Establishments manufacturing foods for human consumption and certain related products such as chewing gum, spices, manufactured ice, and prepared feeds for animals and fowls.

201 Slaughtering, Preparation and Preserving of Meat

Abattoirs and meat packing plants; establishments engaged in killing, dressing, packing, and canning poultry, rabbits, and small game for the trade.

202 Manufacture of Dairy Products

Establishments primarily engaged in manufacturing creamery butter, natural cheese, condensed milk, ice cream and ices, and special dairy products such as processed butter, processed cheese, and malted milk.

203 Canning and Preserving of Fruits and Vegetables

Establishments primarily engaged in canning fruits and vegetables including fruit and vegetable juices; manufacturing and canning soups, preserves, jams and jellies, pickles and sauces. To include also establishments engaged in quick-freezing fruits, vegetables, and other foods.

204 Canning and Preserving of Fish and Other Sea Foods

205 Manufacture of Grain Mill Products

Flour and other grain mill products mills; establishments preparing feeds for animals and fowls, breakfast foods and other cereal preparations; cleaned

206      Manufacture of Bakery Products

Establishments primarily engaged in manufacturing bread, cakes, handmade cookies, doughnuts, pies, pastries and similar "perishable" bakery products; biscuit crackers, pretzels and similar "dry" bakery products. Macaroni, Spaghetti, vermicelli and noodles not to be included but to be classified with Miscellaneous Food Preparations (309).

Major  
Group   Group

207                      Sugar Factories and Refineries

Establishments primarily engaged in manufacturing raw sugar, syrup, and granulated or clarified cane sugar from sugar cane; as well as manufacturing sugar from sugar beets. To include also sugar refineries.

208                      Manufacture of Candy and Other Sugar Confectionery, Chocolate and Cocoa Products

Establishments manufacturing candy and other confections such as chocolate candies, chocolate-covered bars, marshmallows, fudge, candied and crystallized fruits, candy-covered nuts, salted nuts, stuffed dates and similar products; also manufacturing chocolate and cocoa butter from cocoa beans and other chocolate and cocoa products. Manufacturing of chewing gum also to be included.

209                      Miscellaneous Food Preparations

To include establishments manufacturing all kinds of food preparations not otherwise classified.

21                        BEVERAGE INDUSTRIES

Manufacturing carbonated non-alcoholic beverages and carbonated mineral waters; distilled alcoholic liquors such as whiskey, brandy, rum, gin, cordials, and prepared mixed drinks (cocktails); malt liquors such as beer, ale, porter and stout; wines.

211                      Distilling, Rectifying and Blending of Spirits

212                      Wine Industries

213                      Breweries and Manufacturing of Malt

214                      Soft Drinks and Carbonated Water Industries

<u>Major</u>	<u>Group</u>
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<u>Major</u>	<u>Group</u>
22	220

TOBACCO MANUFACTURES

Establishments primarily engaged in manufacturing cigarettes, cigars, smoking and chewing tobacco, and snuff. Stemming, redrying, and other operations connected with preparing raw-leaf tobacco for manufacturing also to be included.

23	
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MANUFACTURE OF TEXTILES

To include establishments engaged in performing any of the following operations: (1) processing textile fibers to prepare them for spinning; (2) manufacturing yarn, thread, woven fabrics, knit fabrics, laces, braids, carpets and rugs, knit garments made on knitting machines; (3) dyeing and finishing fabrics, yarn and fibers; (4) coating, waterproofing, and otherwise treating fabrics; (5) manufacturing cordage, ropes and twine.

231	
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Primary Textile Mills Other Than Knitting Mills

To include scouring and combing plants; yarn and thread mills; broadwoven fabric mills; narrow fabrics and other smallwares mills; dyeing and finishing establishments; carpet and rug factories; lace mills, and other primary textile manufacturing establishments.

232	
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Knitting Mills

To include hosiery mills and other knitting mills.

233	
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Cordage, Rope, and Twine Factories

Establishments manufacturing rope, cable, cordage, twine, and related goods from hemp, jute, cotton, paper, flax, and other fibers.

Major  
Group Group

To include mills engaged in manufacturing linoleum and other hard-faced floor coverings with textile base; artificial leather, oilcloth and other impregnated and coated fabrics; felt factories.

24

MANUFACTURE OF WEARING APPAREL AND OTHER MADE-UP TEXTILE GOODS

Industries manufacturing footwear, gloves, hats, clothing, apparel, accessories and all kinds of made-up textile goods.

241

Manufacture of Wearing Apparel Except Footwear

Establishments primarily engaged in manufacturing wearing apparel by cutting and sewing fabrics, leather, fur, and other materials. Establishments primarily engaged in cleaning, pressing, altering, and repairing articles of wearing apparel to be classified in Non-manufacturing Industries. Important products of this group are underwear and outerwear; millinery; hats; fur goods; gloves and mittens; suspenders, garters and related products; robes and dressing gowns; raincoats and other waterproof outer garments; leather and sheep-lined clothing; apparel belts regardless of material; handkerchiefs; academic caps and gowns; vestments; theatrical costumes.

242

Manufacture of Footwear Except Rubber Footwear

Establishments primarily engaged in manufacturing all kinds of footwear, leggings, and overgaiters made of leather, fabrics, plastics, wood and other materials. Manufacturing of rubber footwear to be classified



Major  
Group    Group

## 243            Manufacture of Made-Up Textile Goods

Establishments primarily engaged in manufacturing curtains, draperies, and other house furnishings such as sheets, pillowcases, napkins, tablecloths, comfortables, blankets, bedspreads, pillows, laundry bags, and slip covers; textile bags; canvas products; trimmings; embroideries; banners, flags, and pennants. To include also stitching, and tucking plants; sponging or shrinking of cloths for the trade; and establishments employing home workers for making textile products.

## 25            250            MANUFACTURES OF WOOD AND CORK EXCEPT MANUFACTURE OF FURNITURE

To include sawmills, veneer mills, lath mills, shingle mills, cooperage stock mills, planing mills, plywood mills, and establishments engaged in wood preserving and manufacturing finished articles made entirely or mainly of wood or wood substitutes. Manufacture of wood furniture to be classified in Furniture Manufacturing Industries (Major Group 26); pianos and wooden musical instruments to be classified with Musical Instruments Industries (Group 395); caskets and coffins to be classified in Morticians' Goods Industries (39, Miscellaneous Manufacturing Industries).

## 26            260            MANUFACTURE OF FURNITURE AND FIXTURES

Establishments primarily engaged in manufacturing household, office, public building, professional and restaurant furniture; office and store fixtures, window

Major  
Group   Group

27

MANUFACTURE OF PAPER AND PAPER PRODUCTS

To include all paper and paperboard mills; and establishments primarily engaged in manufacturing articles of pulp, paper and paperboard.

271

Pulp, Paper, and Paperboard Mills

Manufacture of pulp from wood, and from rags and and other fibers; the conversion of these pulps into any kind of paper or paperboard.

272

Manufacture of Articles of Pulp, Paper, and Paperboard

Establishments primarily engaged in the manufacture of paper and paperboard into converted paper products such as coated paper, paper bags, paper boxes, and other paper containers, cards, envelopes, and wallpaper. To include also manufacture of all kinds of pressed and molded pulp goods such as pulp plates and utensils.

28

280

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

Establishments primarily engaged in printing, lithographing, and publishing newspapers, periodicals, books, maps, atlases, sheet music, and directories; commercial or public printing establishments; commercial lithographing; establishments manufacturing greeting cards; bookbinding; blanketbook making; paper ruling; manufacturing looseleaf devices and library binders, and other establishments primarily engaged in work related to bookbinding such as book or paper bronzing, gilding and edging; map and sample mounting. To include also establishments rendering service for the printing trade

Major  
Group    Group

29                    MANUFACTURE OF LEATHER AND LEATHER PRODUCTS EXCEPT FOOTWEAR

Industries engaged in tanning, currying, and finishing hides and skins, and in manufacturing leather products except footwear. Manufacture of footwear to be classified in Group 242.

291                    Tanneries and Leather Finishing Plants

Establishments primarily engaged in tanning, currying and finishing all kinds of leather and in embossing, japanning, and currying leather; to include also manufacturing leather belting and leather packing.

292                    Manufacture of Leather Products Except Footwear and Other Wearing Apparel

Establishments primarily engaged in manufacturing leather products except footwear and other wearing apparel such as luggage, handbags, pocketbooks, card, cigarette and key cases, coin purses, checkbook covers, saddlery, harness, whips and other articles made of leather or leather substitutes. Manufacturing of boot and shoe cut stock and findings also to be included.

30                    300                    MANUFACTURE OF RUBBER PRODUCTS

Establishments manufacturing from natural or synthetic rubber, gutta percha, balata, or gutta siak, all kinds of rubber products such as tires, rubber footwear, mechanical rubber goods, and rubber sundries. To include also establishments engaged in reclaiming rubber from used tires, scrap, and miscellaneous waste rubber by manufacturing processes which result in a product that is

Major  
Group   Group

manufacturing rebuilt and retreaded rubber tires.

31      310      MANUFACTURE OF CHEMICALS AND CHEMICAL PRODUCTS

Industries producing basic chemicals, and industries manufacturing products by predominantly chemical processes. Chemical industries include three general classes of establishments: (1) manufacturing basic industrial chemicals such as acids, alkalies, salts, and organic chemicals; (2) manufacturing chemical products to be used in further manufacture such as synthetic fibers, plastic materials, and elastomers, including synthetic rubber; crude animal and vegetable oils, dry colours, and pigments; and (3) manufacturing finished chemical products to be used for ultimate consumption such as drugs, cosmetics, and soaps; or to be used as materials or supplies in other industries such as paints, fertilizers, and explosives. Great variety of differences in organization of chemical industries from country to country makes it inadvisable to recommend any sub-division of this very important Major Group.

32      MANUFACTURE OF PRODUCTS OF PETROLEUM AND COAL

Petroleum refineries producing gasoline, fuel oils, lubricants, illuminating oils, and other products from crude petroleum and its fractionation products; coke ovens; establishments primarily engaged in manufacturing paving and roofing materials; fuel briquets and packaged fuel; lubricating oils and greases made outside of petroleum refineries. To include also manufacture of petroleum and petroleum products from coal.

Group      Group

Manufacture of Miscellaneous Products of Petroleum  
and Coal

MANUFACTURE OF NON-METALLIC MINERAL PRODUCTS EXCEPT  
PRODUCTS OF PETROLEUM AND COAL

Industries engaged in manufacturing structural clay products (brick, tile, sewer pipe, crucibles made of clay, architectural terra cotta, stove lining, chimney pipes and tops); flat glass and other glass products; pottery, china and earthenware; cement; concrete, gypsum and plaster products; mineral wool; cut-stone and stone products; abrasive and asbestos products; non-clay refractories and crucibles; and all other articles made from non-metallic mineral materials.

Manufacture of Structural Clay Products (brick, tile, sewer pipe, clay refractories)

## Manufacture of Glass and Glass Products

Manufacture of Pottery, China, and Earthenware

Manufacture of Non-metallic Mineral Products Not  
Otherwise Classified

## PRIMARY METAL INDUSTRIES

Industries engaged in smelting and refining of ferrous and non-ferrous metals from ore, pig, or scrap; in the rolling, drawing, and alloying of ferrous and non-ferrous metals; and in the manufacture of castings, forgings, and other basic materials made of ferrous and non-ferrous metals.

## Iron-and-Steel Primary Industries

Non-ferrous-Metals Primary Industries

## SECONDARY METAL INDUSTRIES

Establishments engaged in the further manufacturing of

Major  
Group Group

tinware; hand tools; cutlery; hardware; metal stampings; lighting fixtures; fabricated wire products; metal shipping containers; safes and vaults; steel springs; bolts, nuts, washers, and rivets; collapsible tubes; gold, silver, tin, aluminum, and other foil; ordnance and accessories; and all other metal products except machinery and transportation equipment.

36      360      MANUFACTURE OF MACHINERY OTHER THAN ELECTRIC

To include industries engaged in manufacturing machinery and prime movers other than electrical equipment. Important products of industries included in this Major Group are: engines and turbines; agricultural machinery; tractors; construction and mining machinery and equipment; machine tools and other metal working machinery; accessories for machine tools and other metal-working machinery; machinery designed for special industries such as food products, textile, paper industries, printing trades, cement-making, clay-working, glass-making, hat-making, incandescent lamp-making, leather-working, paint-making, rubber-working, tobacco-working, cigar and cigarette-making, and shoe-making industries; general industrial machinery and equipment (pumps, air and gas compressors, and pumping equipment; elevators and escalators; conveyors and conveying equipment; blowers and exhaust and ventilating fans; industrial trucks, tractors, trailers, and stackers and other material-handling equipment; mechanical power-transmission equipment, industrial furnaces

Major  
Group Group

machines; sewing machines; refrigerators and refrigeration machinery; ice-making machinery and equipment; valves and fittings; ball-bearing and roller bearing; pipe fittings. To include also machine shops engaged in producing machine and equipment parts.

37      370      MANUFACTURE OF ELECTRICAL MACHINERY, APPARATUS, APPLIANCES AND SUPPLIES

Industries engaged in manufacturing machinery apparatus and supplies for the generation, storage, transmission, transformation and utilization of electric energy. Important products: electrical generating, transmission and distribution apparatus; electrical appliances; insulated wire and cable; electrical equipment of motor vehicles, aircraft and railway locomotives and cars; electric lamps; communications equipment and related products; electric batteries; x-ray and therapeutic apparatus; electronic tubes.

38      MANUFACTURE OF TRANSPORTATION EQUIPMENT

To include industries engaged in manufacturing equipment for transportation of passengers and cargo by land, air and water. Important products: motor vehicles and motor vehicle equipment; automobile trailers; aircraft; ships and boats; railroad equipment; motorcycles; bicycles; animal-drawn vehicles, wheelbarrows; pushcarts. Material-handling equipment to be classified in Major Group 36, Manufacture of Machinery Other Than Electric. Children's vehicles to be classified with Toy and Sporting and Athletic Goods Industry in Major Group 39. Miscellaneous Manufacturing Industries.

Major  
Group Group

Shipyards and boatshops engaged in building and  
repair work.

- |     |   |
|-----|---|
| 382 | Manufacture of Railroad Equipment                                   |
| 383 | Manufacture of Motor Vehicles                                       |
| 384 | Manufacture of Bicycles   |
| 385 | Manufacture of Aircraft   |
| 389 | Manufacture of Transportation Equipment Not Otherwise<br>Classified |



Major  
Group   Group

39

MISCELLANEOUS MANUFACTURING INDUSTRIES

To include industries not allocable to any other major group in the field of manufacturing. Important industries in this Major Group as identified by products manufactured are: mechanical measuring, laboratory, and scientific instruments; optical instruments and lenses; surgical, medical, and dental instruments, equipment, and supplies; ophthalmic goods; photographic equipment and supplies; watches and clocks; jewelry, silverware and plated ware; musical instruments; toys, sporting and athletic goods; pens, pencils, and other office and artists' materials; costume jewelry and costume novelties; feathers, plumes, and artificial flowers; buttons, needles, pins, hooks, eyes, and similar notions; brooms and brushes; lamp shades; morticians' goods; furs, dressed and dyed; hair working; umbrellas, parasols, and canes; tobacco pipes and cigarette holders; models and patterns; identification plates, badges, emblems, and tags; beauty shop and barber shop equipment; signs and advertising displays.

- 391            Manufacture of Professional, Scientific and  
                 Controlling Instruments
- 392            Manufacture of Photographic and Optical Goods
- 393            Manufacture of Watches and Clocks
- 394            Manufacture of Jewelry
- 395            Manufacture of Musical Instruments
- 399            Manufacturing Industries Not Otherwise  
                 Classified

Division 4. - CONSTRUCTION

Major  
Group   Group

40      400      CONSTRUCTION

General contractors engaged in construction of buildings; highways and streets, including grade separations, alleys, sidewalks, driveways, small bridges and culverts done on the same contract; heavy construction of such projects as sewers and water mains, railway roadbeds, railroads, piers, tunnels, subways, elevated highways, bridges, viaducts, dams, drainage projects, sanitation projects, aqueducts, irrigation and flood-control projects, gas mains, hydroelectric plants, pipe lines, water-power projects, and all other types of heavy construction; marine construction such as dredging, under-water rock removal, pile driving, land reclamation, harbour and waterways and construction; water-well drilling; airports, athletic fields; radio towers; golf courses; parking areas; swimming pools; tennis courts; telephone lines; and all other construction done by general contractors. To include also special-trade contractors in the field of construction. Special-trade contractors perform only part of the work usually covered by a contract taken by a general contractor.

Division 5. - WHOLESALE AND RETAIL TRADE

All types of wholesalers and retailers, such as wholesale merchants; industrial distributors; exporters and importers; sales branches and sales offices maintained by manufacturing enterprises; agents, commodity brokers and commercial merchants; petroleum bulk tank stations; assemblers, buyers,

selling merchandise for personal or household consumption. Auxiliary units such as power plants, garages, repair shops, warehouses operated by distribution establishments in connection with wholesaling or retailing operations are classified according to the primary activity of the distribution establishment.

Major  
Group    Group

51    510    WHOLESALE TRADE

52    520    RETAIL TRADE

Division 6. - FINANCE, INSURANCE AND REAL ESTATE

To include banks and other financial institutions; insurance carriers; insurance agents, brokers, and insurance service; real estate.

Major  
Group    Group

61    610    BANKS AND OTHER FINANCIAL INSTITUTIONS

Institutions performing banking or closely related functions such as currency exchanges, safe-deposit companies, clearing house associations, corporations for banking abroad, and agencies of foreign banks; credit agencies other than banks such as rediscount and financing institutions, mortgage companies, industrial loan institutions, agricultural credit agencies, sales finance and industrial credit companies, and personal credit companies; investment companies; holding companies; security brokers and dealers, commodity brokers and dealers in commodity futures; exchanges and exchange clearing houses; and other financial establishments such as those engaged in patent buying and licensing, and those organized for the protection of security holders.

Major  
Group   Group

62      620      INSURANCE COMPANIES (INSURANCE CARRIERS)

Insurance carriers of all kinds: life, fire, marine, accident, health, title, financial obligation, casualty, fidelity, and surety.

63      630      INSURANCE AGENTS, AND REAL ESTATE

Insurance agents and brokers; organizations servicing insurance carriers; establishments acting as consultants for policyholders; real estate (operators, developers, and agents). It is recommended that no attempt be made for further sub-division of this Major Group, since in a great many instances agents and brokers simultaneously are rendering their services for insurance and real estate interests.

Division 7. - TRANSPORTATION, COMMUNICATION, AND OTHER PUBLIC UTILITIES

Enterprises engaged in passenger and freight transportation by railway, highway, water, or air; establishments furnishing services related to transportation; warehouses operated independently from establishments in distributive trades; enterprises furnishing telephone, telegraph, broadcasting, or other communication services; enterprises supplying electricity, gas, steam, water, or sanitary services. Essential characteristics of establishments included in this Division are that they are regulated by public authorities as to the rates or prices they may charge and the services they may render.

Major  
Group   Group

71              TRANSPORTATION

Railroad transportation; urban and suburban transportation systems; road transportation; water transportation; air transportation; other transportation;

Major  
Group Group

711 Railroad Transportation

Companies furnishing transportation by line-haul railroad, and services allied to railroad transportation, such as sleeping-car service, dining-car service and railway express.

712 Tramway, Omnibus, and Taxicab Operators

Urban and suburban bus lines, street railways (tramways, elevated, underground), taxicabs and other cabs.

713 Road Transportation of Passengers

Interurban bus lines (coach operators); companies primarily engaged in the operation of fixed facilities for highway passenger transportation, such as toll roads, highway bridges and terminals; road transportation except bus lines, such as automobiles and carriage for hire, livery stables.

714 Road Transportation of Freight

Establishments engaged in freight transportation by road.

Major  
Group Group

715 Water Transportation

Companies engaged in freight and passenger water transportation. To include also companies furnishing services incidental to water transportation, such as operating and maintaining piers, docks, and associated buildings and facilities, stevedoring, maintenance and operation of canals, salvaging distressed vessels, and salvaging the cargoes of distressed vessels.

716 Air Transportation

Companies primarily engaged in furnishing air transportation and also those operating airports and flying fields. Companies primarily engaged in operating airplanes for hire also to be included.

717 Services Incidental to Transportation

Companies furnishing services incidental to transportation such as forwarding; packing and crating; arrangement of transportation; rental of railroad cars; inspection, sampling and weighing connected with transportation. Operation of stockyards providing pens, feed, and selling areas for livestock temporarily held either pending sale or in transit to or from the market are also to be included.

719 Transportation Not Otherwise Classified

Companies engaged in pipeline transportation of petroleum and gasoline for hire. To include also all other transportation establishments not otherwise classified.

Major  
Group    Group

72      720      COMMUNICATION

Establishments furnishing communication services to the public whether by wire or radio and whether intended to be received audibly or visually. Also to include postal service. Companies rendering services for the exchange or recording of messages are also to be included.

73      730      STORAGE AND WAREHOUSING

To include establishments engaged in storage of farm products, furniture, household goods, or commercial goods of any nature, when such storage is offered as an independent service.

74      740      ELECTRIC LIGHT AND POWER PRODUCTION AND DISTRIBUTION

Generation, transmission, and distribution of electric energy for heating power and lighting purposes.

75      750      GAS MANUFACTURE AND DISTRIBUTION

Establishments engaged in distributing natural gas and manufacturing gas and distributing it through mains to domestic and commercial consumers.

76      760      WATER AND SANITARY SERVICES

Establishments distributing water and those engaged in the disposal of garbage sewage, and other wastes by means of destroying or processing the waste material.

77      770      STEAM HEAT AND POWER, AND OTHER PUBLIC UTILITIES

To include companies primarily engaged in producing and distributing steam for heating and power purposes.

Division 8. - SERVICES

81      810      GOVERNMENT SERVICE

Establishments maintained by governments to carry

Major  
Group   Group

81      810      include governmental activities in the field of  
transportation, communication, education, health, production,  
marketing, and the operation of financial institutions, all of  
which along with others of like kind to be classified in  
the appropriate industry class.

82      COMMUNITY AND BUSINESS SERVICE

Public or private establishments furnishing services  
to the community and to the business enterprises.

821      Educational Services

Establishments furnishing formal academic or  
technical courses; and non-profit educational and  
scientific research agencies. To include also  
establishments furnishing related educational services  
such as special non-degree-grading schools,  
correspondence schools, music and dancing schools  
are not to be confused with dance halls, ball rooms,  
and dance studios primarily furnishing entertainment.

822      Medical and Other Health Service

Establishments primarily engaged in furnishing  
medical, surgical and other health services.

823      Religious Organizations

Religious organizations and their establishments  
maintained for worship or for promotion of religious  
activities. Other establishments operated by  
religious organizations such as hospitals, educational  
or charitable institutions, public houses, and reading  
rooms are not to be included in this industry.

824      Welfare Institutions



Major  
Group   Group

824            Army, Community Chests Travelers Aid Societies, children's aid societies, day nurseries, charitable organizations and similar institutions.

825            Legal Service  
                 Offices of barristers, advocates and solicitors furnishing legal service to individuals or organizations.

826            Accountancy Service  
                 Establishments selling accounting, auditing and bookkeeping services,

827            Business Service Except Accountancy  
                 Establishments selling services to business enterprises: advertising; credit reporting; adjustment and collection of bills; duplicating, blueprinting, photostating; addressing, mailing, and rendering stenographic services; compiling and selling classified mailing lists; and all other kinds of business service.

828            Trade Associations and Labour Organizations  
                 Trade associations, chambers of commerce, boards of trade, labour organizations.

829            Community Service Not Otherwise Classified  
                 Libraries, museums, botanical and zoological gardens; political organizations; civic, social, and fraternal associations and clubs.

83            **RECREATION SERVICE**

                 Industries engaged in motion picture production, distribution, and projection, and industries furnishing other recreation services.

Major  
Group Group

831 Motion Picture Production, Distribution, and Projection

Establishments primarily engaged in the production of motion pictures, in motion picture distribution, and in the operation of motion picture theaters. To include also those engaged in performing services allied with motion picture production and distribution such as motion picture film processing, editing, renting and repairing motion picture equipment as well as establishments operating casting bureaus.

832 Recreation Service Other Than Motion Picture

Theaters and theatrical producers; dance halls and studios; bowling alleys; billiards and pool parlours; baseball and football clubs, athletic fields and sports promoters, golf clubs; bathing beaches; swimming pools; ice-skating and roller-skating rinks; riding academies; gymnasiums and tennis courts; dance bands, orchestras, and entertainers operating on a contract or fee basis; race-tracks; amusement parks; exhibition, carnivals, and coin-operated amusement-devised parlours; shooting galleries; circuses; and other establishments furnishing amusement or entertainment on payment of a fee or admission charge.

84 PERSONAL SERVICE

Establishments primarily engaged in providing services generally involving the care of the person or his apparel.

841 Domestic Service

Private households which employ workers on or about the premises in the occupations usually considered as domestic service. These occupations include such categories as cooks,

Major  
Group   Group

842      Restaurants, Cafes, Taverns, and Other Drinking and Eating Places

843      Hotels, Rooming Houses, Camps and Other Lodging Places

Commercial establishments and institutions engaged in furnishing lodging and meals and camping space and camping facilities, on a fee basis. Lodging houses and hotels operated by membership organizations for the benefit of their constituents and not open to the general public to be included.

844      Laundries and Laundry Service; Cleaning and Dyeing

Establishments primarily engaged in operating mechanical and hand laundries. To include also establishments primarily engaged in supplying laundered linens (uniforms, aprons, table covers, towels, diapers), on a contract basis; and establishments primarily engaged in dry-cleaning and dyeing apparel and household furnishings.

845      Barber and Beauty Shops

Barber shops, barber colleges, beauty shops, beauty parlour schools, and combinations of barber and beauty shops.

846      Portrait and Commercial Photographic Studios

Establishments primarily engaged in portrait photography, in film developing and print processing of films except standard motion picture films, and in photography for advertising agencies, publishers and other industrial users.

849      Personal Service Not Otherwise Classified

Establishments primarily engaged in providing services such as shoe shining, chimney cleaning, window cleaning,

Major  
Group   Group

85            REPAIR SERVICE

Establishments primarily engaged in providing repair  
services as a line of activities separate from manufacturing.

851           Repair of Motor Vehicles

852           Repair of Bicycles

853           Repair of Watches and Clocks

854           Repair of Footwear

859           Repair Service Not Otherwise Classified

Division 9. - ACTIVITIES NOT ADEQUATELY DESCRIBED

90           900   ACTIVITIES NOT ADEQUATELY DESCRIBED

## PART V

Explanations of Technical Features of the  
Proposed Classification

The proposed classification of industries is essentially a revision of the industrial classification of the League of Nations. Our amendments have resulted principally from a study of the actual classification practices of various nations. Account has also been taken of recent developments in the industrial structures of nations which may be expected to use the proposed classification.

Attention is called particularly to the following characteristics of the Proposed Classification:

1. Elimination of Alphabetic Notations

All notations by letter and Roman numeral have been ~~eliminated~~. Notations are by arabic numbers since these are universally understood whereas letters differ in some instances from country to country.

2. Numeric Decimal Notations

In order to meet requirements of offices using punched-cards and machine sorting and tabulating equipment, and at the same time to provide a means whereby the proposed classification can be indefinitely expanded without changes in the basic outline and basic classes and sub-classes, decimal numeric notations are used.

This means that the whole field of industry is divided into 9 major divisions (Agriculture, Mining, Manufacturing, Construction, Distribution, Finance-Insurance-Real Estate, Transportation-Communication-and-Other-Public-Utilities, Services, and Activities Not Adequately Described). Each major division is assigned its permanent 1-digit number, except Manufacturing which, because of the great number of major industrial groups, receives two 1-digit

numbers (2 and 3)

The first digit indicates the major division and the second number identifies the major sub-division of that division. The number of major groups within a major division varies from 1 to 10.

Major groups, in turn, can be sub-divided into 3-digit groups, the first digit identifying the major division, the first and second taken together indicating the major group, and the first, second and third taken together identifying the industry class.

In cases where a major group is not sub-divided into groups, the title of the major group is also used as the title of the 3-digit group with "0" added to the identification number of the major group. For example, Major Group 72, Communication, has no further sub-division and the number 720 identifies the 3-digit group Communication. If it is decided to establish a number of detailed sub-divisions - say postal service, telephone, telegraph, and radio - then the major group and its sub-divisions would be identified as follows:

72	Communication
721	Postal Service
722	Telephone
723	Telegraph
724	Radio
729	Communication not Otherwise Classified

3. Hunting, Trapping, and Game Propagation as a Separate Major Group

The League of Nations Classification, Chapter II, Item 2, covers forestry, hunting and trapping. In the Netherlands Classification, Class XIX covers fisheries and hunting, with a separate Sub-class 5 for hunting. In the United States Classification hunting and trapping is recognized as a separate sub-division of Major Group 07, Agricultural and Similar Service Establishments. In view of the fact that hunting, trapping and

deemed advisable to establish this branch of activity as a separate Major Group 03. Further sub-division of this group was not considered necessary.

4. Mining and Quarrying

Section B, Mining and Quarrying, in the League of Nations Classification is comparable with Division 1, Mining and Quarrying, in the proposed International Classification. However, instead of having 2 chapters, as in the League of Nations Classification, the proposed classification has 5 major groups. Group 121, Iron Ore Mining, and Group 122, Other Metal Mining, are recognized in the proposed International Classification as 2 sub-divisions of Major Group 12, Metal Mining, whereas in the League of Nations' these 2 groups are listed as separate items under Chapter IV, Mining and Quarrying of Coal, Ores, and Other Minerals.

5. Increased Number of Beverage Industries

League of Nations Item 20, Other Beverage Industries, is sub-divided into 3 separate groups in the proposed classification: 212, Wine Industries; 213, Breweries and Manufacturing of Malt; and 214, Soft Drinks and Carbonated Water Industries. Organizational differences in wine producing industries, breweries and non-alcoholic beverage industries make these sub-divisions very desirable. The value of the more detailed breakdown is enhanced by the fact that some countries are predominantly interested in one or another of these industries

6. Changes in Classification of Wearing Apparel Repair and Footwear Repair

Repair work carried on outside of manufacturing plants by establishments primarily engaged in repair work is deleted from League of Nations Items 39 and 40, since it is believed that repair

7. Changes in Classification of Manufacture of Wood and Cork

Manufacture of furniture and fixtures (Group 260) is established as a separate group from League of Nations Item 26, Builders' Woodwork, Parquet Flooring, Furniture and Cabinet Making. With the ever increasing importance of metal furniture and furniture made from plastics, furniture industries are recognized as a separate branch of manufacturing where materials used do not serve as a base for classification. Quite frequently, as a matter of fact, a single establishment manufactures metal furniture and wood furniture. On the other hand, the remaining part of the League of Nations Item 26 is combined with Items 25 and 27 into one Group 250 to be known as "Manufactures of Wood and Cork Except Manufacture of Furniture". Examination of all available information indicates that it would be impossible, on an international basis, to segregate sawmills from planing mills and sawmills and planing mills from the manufacture of plywood, millwork and other manufactures of wood and cork.

8. Photography Is Not Considered A Manufacturing Industry

From the League of Nations Chapter XIV, Item 31, Photography is transferred to the Division 8, Service, and established as a Group 846 to be known as "Portrait and Commercial Photographic Studios".

9. Separation of Fur Dressing From The Manufacture of Fur Articles

Fur dressing and fur dressing and dyeing is a separate industry responsible for preparing furs to be used as a material in manufacturing articles of wearing apparel. The manufacture of wearing apparel wholly or partly of fur, is largely carried on in the wearing apparel industries. Therefore, the League of Nations Item 33 is deleted.

10. Problem of The Classification of Chemical Industries



industries in various countries make it inadvisable to recommend any sub-division of the Major Group 31, Manufacture of Chemicals and Chemical Products, at this time. Reference is made to the detailed description of this major group in Part IV of this paper. The scope of this definition will indicate that League of Nations Items 22 and 23 are included in the one group 310.

11. Separation Of Machinery From Transportation Equipment As A Major Group In The Classification

League of Nations Chapter XXIII is divided into three Major Groups: 36, Manufacture of Non-electrical Machinery; 37, Manufacture of Electrical Machinery, Apparatus, Appliances and Supplies; and 38, Manufacture of Transportation Equipment, with sub-divisions comparable to League of Nations classification, except that League of Nations Item 56, Manufacture and Assembling of Motor Vehicles, Motorcycles and Pedal Cycles, is sub-divided into two 3-digit groups: 383, Manufacture of Motor Vehicles, and 384, Manufacture of Bicycles.

12. Separate Classification For Insurance Carriers

Insurance companies or insurance carriers represent a very homogeneous group whereas insurance agents and brokers, in many instances, render their services simultaneously for insurance and real estate interests. Therefore, two major groups are established: 62, Insurance Companies (Insurance Carriers), and 63, Insurance Agents, and Real Estate. This arrangement gives recognition to real estate (operators, developers, and agents) who are quite frequently inseparable from insurance agents.

13. Changes In The Classification Of Transportation

Recognition is given to the existence of city or metropolitan local transportation systems, where transportation is rendered by street railways, omnibus lines, and taxicab operators with subsequent modifications in rail transport and road transport. Road transport.

in turn, is established in the form of two separate 3-digit groups - one for passenger transportation (Group 713) and another for freight transportation (Group 714). In addition, a new group is suggested covering establishments rendering services incidental to transportation, such as forwarding; packing and crating; and arrangement of transportation.

14. Public Warehousing As A Separate Class

This class (Group 530) includes establishments engaged in storage of farm products (with cold storage service for perishable goods), furniture, household goods, and commercial goods of any nature, when such storage is offered as a service independent from establishments engaged in the distributive trades or in other fields.

15. More Detailed Classification Of Public Utilities

League of Nations Chapter VIII, Item 42, "Production and Supply of Electricity, Gas, and Heat; Water Supply" is replaced by four major groups as follows:

- 74 Electric Light and Power Production and Distribution
- 75 Gas Manufacture and Distribution
- 76 Water and Sanitary Services
- 77 Steam Heat and Power, and Other Public Utilities

16. New Classification of Service Industries

League of Nations Section G, Hotel and Personal Services, and Section H, Public Services and Other Services of General Interest, n.e.s., have been extensively examined and analyzed and, as a result, are replaced by the proposed Division 8, Services. Titles of the groups and their descriptions present, it is believed, sufficient evidence that the recommended changes will provide an improved classification of establishments primarily engaged in providing services of all kinds.

17. Number of Divisions, Classes and Sub-classes in the League of Nations and the Proposed International Classifications

PART VI

Relationship of the League of Nations Classification and the  
Proposed International Standard Industrial Classification

Table 1. Comparability of the Outlines of the Classifications

<u>League of Nations Sections</u>	<u>The Proposed Divisions</u>
A. Agriculture, Forestry and Fishing	0. Agriculture, Forestry, Hunting, and Fishing
B. Mining and Quarrying	1. Mining and Quarrying
C. Manufacturing Industries	2 - 3. Manufacturing 7, Part of. Transportation, Communication, and Other Public Utilities
D. Building and other Construction	4. Construction
E. Transport and Communications	7, Part of. Transportation, Communication, and other Public Utilities
F. Commerce	5. Wholesale and Retail Trade 6. Finance, Insurance, and Real Estate
G. Hotel and Personal Services	8. Services
H. Public Services and other Services of General Interest, N.E.S.	
J. Activities not Adequately Described	9. Activities not Adequately Described

Table 2. Comparability on the Summary Level

<u>League of Nations Chapters</u>	<u>The Proposed Major Groups</u>
I. Agriculture and Stock Breeding	01. Agriculture
II. Forestry, Hunting, and Trapping	02. Forestry and Logging 03. Hunting, Trapping, and Game Propagation
III. Fishing	04. Fishing
IV. Mining and Quarrying of Coal, Ores, and other Minerals, N.E.S.	11. Coal Mining 12. Metal Mining 13. Crude Petroleum and Natural Gas 14. Non-metallic Mining and Quarrying, except Coal Mining, Stone Quarrying, Clay and Sand Pits
V. Quarrying of Stone and other Materials, used principally for Construction	15. Stone Quarrying, Clay and Sand Pits
VI. Manufacture of Food	20. Food Manufacturing Industries (Not including Beverage Industries)
VII. Beverage Industries, Distilleries	21. Beverage Industries
VIII. Tobacco Industries	22. Tobacco Manufactures
IX. Manufacture of Animal and Vegetable Oils and Fats, including Margarine X. Chemical Industries, N.E.S.	31. Manufacture of Chemicals and Chemical Products
XI. Manufacture of Rubber	30. Manufacture of Rubber Products
XII. Manufacture of Wood and Cork	25. Manufacture of Wood and Cork, except Manufacture of Furniture 26. Manufacture of Furniture and Fixtures

<u>League of Nations Chapters</u>		<u>The Proposed Major Groups</u>	
XIII.	Pulp and Paper Mills; Manufacture of Paper Articles	27.	Manufacture of Paper and Paper Products
XIV.	Printing and Bookbinding; Photography	28.	Printing, Publishing, and Allied Industries
		84.	Part of. Personal Service (Group 846, Portrait and Commercial Photographic Studios)
XV.	Skin, Hide and Leather Industries	29.	Manufacture of Leather and Leather Products, except Footwear
XVI.	Textile Industries	23.	Manufacture of Textiles
XVII.	Manufacture of Wearing Apparel and of made-up Textile goods, N.E.S.	24.	Manufacture of Wearing Apparel and other made-up Textile goods
XVIII.	Production and Supply of Electricity, Gas, and Heat; Water Supply	74.	Electric Light and Power Production and Distribution
		75.	Gas Manufacture and Distribution
		76.	Water and Sanitary Services
		77.	Steam Heat and Power, and other Public Utilities
XIX.	Manufacture of Mineral Fuels	32.	Manufacture of Products of Petroleum and Coal
XX.	Manufacture of Non-metallic Minerals, N.E.S.	33.	Manufacture of Non-metallic Mineral Products, except Products of Petroleum and Coal
XXI.	Smelting, Casting, Rolling, Forging and Drawing of Base Metals	34.	Primary Metal Industries
XXII.	Manufacture of Articles of Base Metals, N.E.S.	35.	Secondary Metal Industries
XXIII.	Manufacture of Machinery,	36.	Manufacture of Machinery other

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The Proposed Major Groups

XXIV.	Manufacture of Instruments, Clocks and Watches, and Jewellery	39.	Miscellaneous Manufacturing Industries
XXV.	Other Manufacturing Industries, N.E.S.		
XXVI.	Manufacturing Industries not Adequately Described		
XXVII.	Building and other Constructional Work, including Repair and Maintenance of Structures, N.E.S.	40.	Construction
XXVIII.	Rail Transport	71.	Transportation
XXIX.	Road Transport		
XXX.	Water Transport		
XXXI.	Air Transport		
XXXII.	Post, Telegraph and Telephones	72.	Communication (Post, Telephone, Telegraph)
XXXIII.	Wholesale and Retail Trade	51.	Wholesale Trade
		52.	Retail Trade
XXXIV.	Finance, Banks, Insurance	61.	Banks and other Financial Institutions
		62.	Insurance Companies (Insurance Carriers)
		63.	Part of: Insurance Agents, and Real Estate
XXXV.	Agencies for other Purposes, N.E.S.	63.	Part of: Insurance Agents, and Real Estate
		71.	Part of: Transportation
		82.	Part of: Community and Business Service
XXXVI.	Provision of Lodging, Food and Drink	84.	Part of: Personal Service (842, Restaurants, Cafes, Taverns, and other Drinking and Eating Places; 843, Hotels, Rooming Houses, Camps, and other Lodging Places)
XXXVII.	Undertakings for Cleaning and Maintenance of Goods	63.	Part of: Insurance Agents, and Real Estate

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XXXVIII. Household and Personal  
Services

84, Part of: Personal Service  
(841, Domestic Service)

XXXIX. Recreation and Amusement;  
Sport

83. Recreation Service

XL. Medical and Hygienic  
Services

82, Part of: Community and  
Business Service (822,  
Medical and other Health  
Service; Part of 829,  
Community Service, N.E.C.)

XLI. Education, Religion, Arts  
and Sciences, N.E.S.

82, Part of: Community and  
Business Service (821,  
Educational Service; 823,  
Religious Organizations;  
Part of 829, Community  
Service, N.E.C.)

XLII. National Defense

81. Government Service

XLIII. Labour Camps and Similar  
Organizations

XLIV. Public Services, N.E.S., and  
other Services of General  
Interest

81, Part of: Government Service  
824. Welfare Institutions  
825. Legal Service  
828. Trade Associations and  
Labour Organizations  
829. Community Service, N.E.C.

XLV. Activities not Adequately  
Described

90. Activities not Adequately  
Described

Table 3. Comparability on the Detailed Level

<u>League of Nations Items</u>		<u>The Proposed Groups</u>
1. Agriculture and Stock-breeding	010	Agriculture
2. Forestry, Hunting and Trapping	021 022 030	Forestry Logging Hunting, Trapping, and Game Propagation
3. Fishing	040	Fishing
4. Coal and lignite	110	Coal Mining
5. Iron ores	121	Iron Ore Mining
6. Other metal ores, including bauxite and precious-metal bearing minerals	122	Metal Mining except Iron Ore Mining
7. Oil and natural gas, oil shale	130	Crude Petroleum and Natural Gas
8. Mining and quarrying of non- metallic minerals, N.E.S.	140	Non-metallic Mining and Quarrying except Coal Mining, Stone Quarrying, Clay and Sand Pits
9. Quarrying of Stone and other Materials used principally for Construction	150	Stone Quarrying, Clay and Sand Pits
10. Slaughtering, preparation and preserving of meat	201	Slaughtering, preparation and Preserving of Meat
11. Preparation and preserving of Fish, crustaceans and molluscs	204	Canning and preserving of Fish and other Sea Foods
12. Preserving of fruits, vegetables, and other foods, N.E.S.	203	Canning and preserving of Fruits and Vegetables
13. Manufacture of butter, cheese and condensed milk	202	Manufacture of Dairy Products



<u>League of Nations Items</u>		<u>The Proposed Groups</u>
30. Printing and bookbinding and related industries	280	Printing, Publishing and Allied Industries
31. Photography	846	Portrait and Commercial Photographic Studios
32. Dressing and tanning of skins, hides and leather, preparation of hair and bristles	291	Tanneries and Leather Finishing Plants
33. Fur dressing and manufacture of fur articles		
34. Manufacture of leather articles except footwear and other wearing apparel	292	Manufacture of Leather Products except Footwear and Wearing Apparel
35. Manufacture of artificial textile fibres	310, Part of:	Manufacture of Chemicals and Chemical Products
36. Cordage and twine factories	233	Cordage, Rope, and Twine Factories
37. Manufacture of textile yarns and fabrics, N.E.S.	231 239	Primary Textile Mills other than Knitting Mills Textile Mills, N.E.C.
38. Knitted fabrics and knitted articles of all kinds	232	Knitting Mills
39. Manufacture and repair of wearing apparel other than footwear	241	Manufacture of Wearing Apparel except Footwear
40. Manufacture and repair of footwear of all materials, except rubber	242 854	Manufacture of Footwear except Rubber Footwear Repair of Footwear
41. Manufacture of made-up textile articles other than clothing	243	Manufacture of made-up Textile Goods except Clothing

<u>League of Nations Items</u>	<u>The Proposed Groups</u>
42. Production and Supply of Electricity, Gas and Heat; Water Supply	740 Electric Light and Power Production and Distribution 750 Gas Manufacture and Distribution 760 Water and Sanitary Services 770 Steam Heat and Power, and other Public Utilities
43. Coke works and briquette factories	322 Coke Ovens 329 Manufacture of Miscellaneous Products of Petroleum and Coal; Fuel Briquettes
44. Petroleum refineries, oil shale distilleries	321 Petroleum Refineries
45. Brick and tile works, manufacture of other goods of baked clay and stoneware (except pottery)	331 Manufacture of Structural Clay Products (Brick, Tile, Sewer Pipe, Clay Refractories)
46. Manufacture of fine pottery, china and earthenware	333 Manufacture of Pottery, China, and Earthenware
47. Manufacture of glass	332 Manufacture of Glass and Glass Products
48. Manufacture of other non-metallic minerals	339 Manufacture of Non-metallic Mineral Products, N.E.C. (Cement; Lime; Gypsum, Concrete and Asbestos Products; Mineral Wool)
49. Iron and steel (Smelting, casting, rolling, forging and drawing)	341 Iron-and-Steel Primary Industries (Blast Furnaces, Steel Works, Rolling Mills, Iron and Steel Foundries)
50. Non-ferrous base metals (Smelting, casting, rolling, forging and drawing)	342 Non-ferrous-Metals Primary Industries (Smelting, Refining, Rolling, Drawing, Alloying of Non-ferrous Metals, and Non-ferrous Foundries)

<u>League of Nations Items</u>		<u>The Proposed Groups</u>
52. Manufacture and repair of machines, apparatus and appliances, other than electrical, N.E.S. (including fire-arms)	360	Manufacture of Machinery other than Electric
53. Manufacture and repair of electrical machinery, apparatus and appliances, N.E.S.	370	Manufacture of Electrical Machinery, Apparatus, Appliances, and Supplies
54. Manufacture and repair of ships and boats	381	Ship Building and Repairing
55. Manufacture and repair of locomotives, wagons and equipment (other than electrical) for railways and tramways	382	Manufacture of Railroad Equipment
56. Manufacture and assembling of motor vehicles, motor-cycles, and pedal-cycles	383 384	Manufacture of Motor Vehicles Manufacture of Bicycles
57. Repair of motor vehicles, motor-cycles and pedal-cycles	851 852	Repair of Motor Vehicles Repair of Bicycles
58. Manufacture and repair of aircraft	385	Manufacture of Aircraft
59. Manufacture and repair of other vehicles, wheelwrights' work, coachbuilding	389	Manufacture of Transportation Equipment, N.E.C.
60. Manufacture of scientific, medical and optical instruments (other than electric instruments)	391 392	Manufacture of Professional, Scientific, and Controlling Instruments Manufacture of Photographic and Optical Goods
61. Manufacture of clocks and watches	393	Manufacture of Watches and Clocks
62. Manufacture of jewellery and related articles	394	Manufacture of Jewellery

<u>League of Nations Items</u>		<u>The Proposed Groups</u>
63. Manufacture of musical instruments, including phonographs and records	395	Manufacture of Musical Instruments
64. Other Manufacturing Industries, N.E.S.	399	Manufacturing Industries, N.E.C.
65. Manufacturing industries not adequately described		
66. Building and other Constructional Work, including Repair and Maintenance of Structures, N.E.S.	400	Construction
67. Rail Transport	711 712, Part of:	Railroad Transportation Tramways, Omnibus, and Taxicab Operators
68. Road Transport	712, Part of: 713. 714	Tramways, Omnibus, and Taxicab Operators Road Transportation of Passengers Road Transportation of Freight
69. Water Transport	715	Water Transportation
70. Air Transport	716	Air Transportation
71. Post, Telegraph and Telephones	720	Communication (Post, Telephone, Telegraph)
72. Wholesale and Retail Trade	510 520 730	Wholesale Trade Retail Trade Storage and Warehousing
73. Banking and financial business, N.E.S.	610	Banks and other Financial Institutions
74. Insurance	620 630, Part of:	Insurance Companies (Insurance Carriers) Insurance Agents,

<u>League of Nations Items</u>	<u>The Proposed Groups</u>
75. Agencies for other Purposes, N.E.S.	630, Part of: Insurance Agents, and Real Estate 719 Transportation, N.E.C. 826 Accountancy Service 827 Business Service except Accountancy
76. Provision of Lodging, Food and Drink	842 Restaurants, Cafes, Taverns, and other Drinking and Eating Places 843 Hotels, Rooming Houses, Camps, and other Lodging Places
77. Managing and upkeep of buildings, for occupation by several tenants	630, Part of: Insurance Agents, and Real Estate
78. Undertakings for cleaning and maintenance	844 Laundries and Laundry Service; Cleaning and Dyeing 849, Part of: Personal Service not Elsewhere Classified
79. Care of the person	845 Barber and Beauty Shops 849, Part of: Personal Service not Elsewhere Classified
80. Household and Personal Services	841 Domestic Service
81. Musical, theatrical and cognate performances	831 Motion Picture Production, Distribution, and Projection
82. Production of motion picture films	832 Recreation Service other than Motion Picture
83. Sport	
84. Medicine and care of the sick and infirm	822 Medical and other Health Service
86. Other health services	
85. Funeral undertaking, cemeteries, crematoria	829, Part of: Community Service, N.E.C.
87. Education and instruction	821 Educational Service

<u>League of Nations Items</u>	<u>The Proposed Groups</u>
88. Arts, sciences and public information services, N.E.S.	829, Part of: Community Service, N.E.C.
89. Religion	823 Religious Organizations
90. National Defence	810 Government Service
92. Public services, N.E.S.	
91. Labour Camps and similar Organizations	
93. Other services and organizations of general interest	824 Welfare Institutions 825 Legal Service 828 Trade Associations and Labour Organizations 829, Part of: Community Service, N.E.C.
94. Activities not adequately described	900 Activities not Adequately Described

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